

## AMENDMENTS TO THE CLAIMS

Claims 1-19 (Cancelled).

20. (Previously presented) The operating method as claimed in claim 30, further comprising the steps of:

controlling a multiplexer by the selection lines such that data transmitted over a module transmission line of the selected measurement module are forwarded via the multiplexer to the central unit.

Claims 21 and 22 (Cancelled).

23. (Previously presented) The operating method as claimed in claim 30, wherein:

the measurement modules are periodically selected by the central unit.

Claims 24 - 27 (Cancelled).

28. (Currently Amended) A measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, comprising:

a central unit;

a central transmission line;

at least one measurement module connected to said central unit by said central transmission line for transferring a data signal over said central transmission line from said central unit to said measurement module;

a multiplexer;

a selection line associated with each measurement module for connecting its associated measurement module to said central unit and to said multiplexer; and

~~a measurement module transmission line associated with each measurement module, for connecting its associated measurement module to said multiplexer, wherein:~~

each measurement module is selectable by said central unit by a selection line;

said central transmission line and the selection line being different lines;  
~~the output of said multiplexer is connectable with said central unit; and~~  
each measurement module having a module transmission line connecting the measurement modules with inputs of said multiplexer,

the multiplexer having an output, which is connectable with said central unit;

and

said multiplexer is controllable via said selection lines.

Claim 29 (Cancelled).

30. (Currently Amended) An operating method for a measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, having a central unit, and ~~at least one measurement module~~ a plurality of measurement modules connected with the central unit; comprising the steps of:

providing a selection line for each measurement module ~~over which a data signal is transferred;~~ connecting the plurality of measurement modules to the central unit;

transmitting data from the central unit over a central transmission line to all measurement modules;

selecting a measurement module by the central unit and an associated selection line; and

utilizing data sent from the central unit over the central transmission only in the measurement module selected by means of the associated selection line, wherein:

~~different measuring modules are selected, when more than one measuring module is provided, or said at least one measurement module is selected for different selection times periodically by the central unit; and the selection times are changed.~~

Claim 31 (cancelled).

32. (Currently Amended) An operating method for a measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, having a central unit, a multiplexer and ~~at least one measurement module~~ a plurality of measurement modules connected with the central unit; comprising the steps of:

providing a selection line for each measurement module ~~over which a data signal is transferred;~~ connecting the plurality of measurement modules to the central unit;

selecting a measurement module by the central unit and an associated selection line; [[and]]

utilizing data sent from the central unit over the central transmission line only in the measurement module selected by means of the associated selection line; and

controlling the multiplexer by the selection lines such that data transmitted over a module transmission line of the selected module are forwarded via the multiplexer to the central unit.

33. (New) A measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, comprising:

- a plurality of measurement modules;
- a central unit;
- a multiplexer;
- a plurality of selection lines; and
- a central transmission line, wherein:

all said measurement modules are connected to said central unit by said central transmission line for transferring a data signal over said central transmission line from said central unit to all measurement modules;

each measurement module is assigned its own selection line connecting the measurement module to said central unit,

each measurement module is selectable by said central unit by said selection line, wherein only the measurement module selected by the central unit by the selection line assigned to it utilizes the data signal transmitted from the central unit over the central transmission line;

said central transmission line and the selection line being different lines;

each measurement module having a module transmission line connecting the measurement modules with inputs of said multiplexer, the multiplexer having an output, which is connectable with the central unit; and

said multiplexer is controllable via said selection lines.

34. (New) The measuring device according to claim 33, wherein:

the selection lines assigned to each measurement module acts also on said multiplexer for controlling said multiplexer.

35. (New) The measuring device according to claim 33, wherein:

several measurement modules are selectable simultaneously by means of the selection lines assigned to each of said measurement modules, so that said several measurement modules can simultaneously receive and utilize a data signal sent from the central unit on said central transmission line.

36. (New) The measuring device according to claim 35, wherein:

said multiplexer is configured such that none of the inputs connected with said module transmission lines of the measurement modules is forwarded to the output of said multiplexer and thus to said central unit as soon as more than one selection line is activated.

37. (New) The measuring device according to claim 33, wherein:

all measurement modules receive the data transmitted from said central unit over said central transmission line simultaneously.

38. (New) An operating method for a measuring device for process technology, to be used in measurement and/or cleaning and/or calibration installations in the area of process automation, for measuring pH-values and/or redox potentials and/or other process parameters, having a central unit, and a plurality of measurement modules connected with the central unit;

comprising the steps of:

providing a selection line for each measurement connecting the plurality of measurement modules to the central unit;

transmitting data from the central unit over a central transmission line to all measurement modules;

selecting a measurement module by the central unit and an associated selection line; and

utilizing data sent from the central unit over the central transmission line only in the measurement module selected by means of the associated selection line.

39. (New) The operating method according to claim 38, wherein:

different measuring modules are selected for different selection times periodically by the central unit.

40. (New) The operating method according to claim 39, wherein:

the selection times are changed.

41. (New) The operating method according to claim 32, wherein:

different measuring modules are selected for different selection times periodically by the central unit.

42. (New) The operating method according to claim 41, wherein:

the selection times are changed.